INTERNATIONAL SEARCH REPORT

Intermal application No. PCT/JP03/07071

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	SIFICATION OF SUBJECT MATTER C1 ⁷ C12N15/09, C12N5/16, C07K1	16/08, A01K67/027	
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELD	S SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ C12N15/09, C12N5/16, C07K16/08, A01K67/027			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) BIOSIS/WPIDS/MEDLINE(STN), JSTPlus(STN)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap		Relevant to claim No.
<u>X</u> A	Satoi J. et al., Genetic immutype and hepatitis C virus to a hierarchy of cellular immurtolerance induction against be structural proteins., J.Virol No.24, pages 12121 to 12127	ransgenic mice reveals ne response and hepatitis C virus	12,15,16 1-11,13,14, 17-19
X A	Blissard GW. et al., Location criptional mapping, and tempor the gp64 envelope glycoprotest pseudotsugata multicapsid nucleus., Virology., (1989), Vo. 537 to 555	oral expression of in gene of the Orgyia clear polyhedrosis	12-18 1-11,19
			-
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document published prior to the international filing date but later "P" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot document of particular relevance; the claimed invention cannot step when the document is taken alone document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family		the application but cited to erlying the invention claimed invention cannot be red to involve an inventive claimed invention cannot be provided invention cannot be provided in the document is a documents, such a skilled in the art	
Date of the actual completion of the international search 08 July, 2003 (08.07.03) Date of mailing of the international search report 22 July, 2003 (22.07.03)			ch report 17 - 03)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.		Telephone No.	

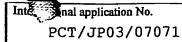
INTERNA NAL SEARCH REPORT

national application No. PCT/JP03/07071

COPY SUBMITTED IN IDS C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Liang R. et al., Human intestinal H+/peptide Α 1-19 cotransporter. Cloning, functional expression, and chromosomal localization., J.Biol.Chem., (1995), Vol.270, No.12, pages 6456 to 6463

Form PCT/ISA/210 (continuation of second sheet) (July 1998)

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	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This inte	ernational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. 🗀	Claims Nos.:
	because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.:
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
, ,	
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
	occause they are dependent elains and are not dianed in accordance with the second and differ sentences of train of they.
Pay II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
	emational Searching Authority found multiple inventions in this international application, as follows:
havi	The matter common to claims 1 to 19 resides in a transgenic nonhuman animal ng a gene encoding a virus-origin membrane protein transferred therein.
	However, a transgenic mouse having a gene encoding a virus-origin membrane
of t	cein transferred therein was already publicly known on the priority date the present case (Satoi J., et al., J. Virol. (2001), Vol.75, No.24,
p.12	2121-12127). Therefore, this common matter falls within the category of or art and thus cannot be considered as a special technical matter in the
	sing as described in PCT Rule 13.2.
ı	
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable
_	claims.
2. ×	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment
	of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers
L	only those claims for which fees were paid, specifically claims Nos.:
	· .
	No required additional search fees were timely paid by the applicant. Consequently, this international search report is
	restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Domark	The additional to the second bush and the second
Kemark	on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.